

Title (en)

ASSESSING PACKET LOSS VISIBILITY IN VIDEO

Title (de)

BEURTEILUNG DER PAKETVERLUSTSICHTBARKEIT IN EINEM VIDEO

Title (fr)

ÉVALUATION DE LA VISIBILITÉ DE PERTE DE PAQUETS DANS UNE VIDÉO

Publication

**EP 2798846 B1 20160330 (EN)**

Application

**EP 12806077 A 20121218**

Priority

- EP 11250951 A 20111230
- GB 2012000914 W 20121218
- EP 12806077 A 20121218

Abstract (en)

[origin: EP2611186A1] The invention presents a new NR-H method for assessment of packet loss visibility measure for a video sequence, where the measure is indicative of the effect on the perceptual quality of the video. Packet loss can occur as a result of the video being transmitted over an imperfect network. The invention combines dynamic modelling of temporal and spatial properties of the decoded pictures with bitstream information revealing location, extent and propagation of any errors. Analysis is performed on blocks of pixels, and preferably the macroblocks defined in the particular video encoding scheme. Knowledge of the error extent from the bitstream information is used to target spatial analysis around the specific error locations. Perceptual impact is estimated by utilising spatio-temporal modelling to predict the properties of a missing block, and comparing those predictions with the actual properties of the missing block.

IPC 8 full level

**H04N 17/00** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)

**G06T 7/0002** (2013.01 - EP US); **H04N 17/004** (2013.01 - EP US); **G06T 2207/10016** (2013.01 - EP US); **G06T 2207/20021** (2013.01 - EP US); **G06T 2207/30168** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2611186 A1 20130703**; CN 104041028 A 20140910; CN 104041028 B 20160824; EP 2798846 A1 20141105; EP 2798846 B1 20160330; US 2014347562 A1 20141127; US 9894351 B2 20180213; WO 2013098539 A1 20130704

DOCDB simple family (application)

**EP 11250951 A 20111230**; CN 201280065187 A 20121218; EP 12806077 A 20121218; GB 2012000914 W 20121218; US 201214369748 A 20121218